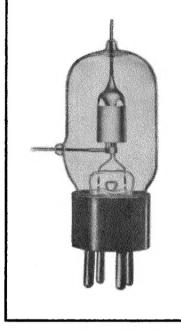


C 2 4 MEDIUM-MU TRIODE **MODULATOR OSCILLATOR** AMPLIFIER

#### GENERAL CHARACTERISTICS

ELECTRICAL	
Filament: Thoriated tungsten  Voltage	6.3 volts 3.0 amperes
Amplification Factor (Average)	23
Direct Interelectrode Capacitances (Average) Grid-Plate	1.5 μμ <b>f</b>
Grid-Filament	1.7 μμf
Plate-Filament Transconductance ( $I_b=25$ ma., $E_b=1000$ , $e_c=-20$ )	0.3 μμf 2500 μmhos
MECHANICAL	·



Base	(Small 4-pin bayon	et) RMA type M8-071
Basing		RMA type 2D
Maximum Overall Dimensions:		
Length		11.50
Diameter		1.44 inches
Net weight		1.00 ounce
Shipping weight (Average) -		1.25 pounds

### AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR Class B

	TY	PICAL OPER	ATION-2	Tubes	MAX. RATING
D-C Plate Voltage	750	1000	1500	2000	2000 volts
MaxSignal D-C Plate Current, per tube*	•	•	•	•	75 ma.
Plate Dissipation, per tube*	•	•	•	•	25 watts
D-C Grid Voltage (approx.)	-20	-30	60	-85	volts
Peak A-F Grid Input Voltage	230	230	250	290	volts
Zero-Signal D-C Plate Current	43	32	21	16	ma.
MaxSignal D-C Plate Current	133	120	94	80	ma.
MaxSignal Driving Power (approx.)	2.0	1.7	1.2	1.1	watts
Effective Load, Plate-to-Plate	9200	15800	33700	55500	ohms
MaxSignal Plate Power Output	50	70	90	110	watts
*Averaged over any sinusoidal audio frequency cycle.					

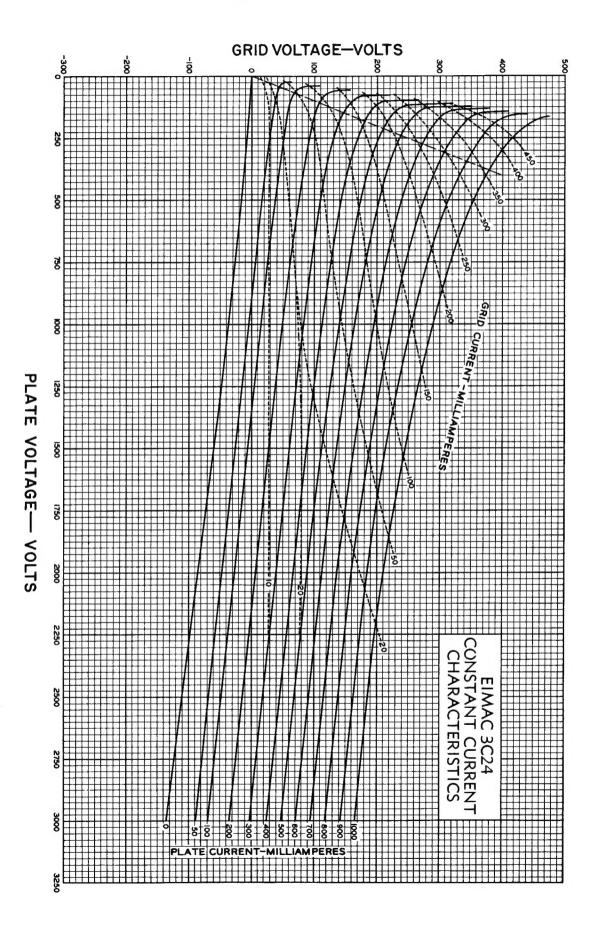
## RADIO FREQUENCY POWER AMPLIFIER AND OSCILLATOR

Class-C \*Telegraphy
(Key down conditions without modulation)

	TYPICAL OPERATION-1	TUBE !	MAX. RATING
D-C Plate Voltage	1000 1500	2000	2000 volts
D-C Plate Current	72 67	63	75 ma.
D-C Grid Current	15 15	17	25 ma.
D-C Grid Voltage	<del>-80</del> -110	-170	volts
Plate Power Output	47 75	100	watts
Plate Input	72 100	125	watts
Plate Dissipation	25 25	<b>2</b> 5	25 watts
Peak R. F. Grid Input Voltage, (approx.)	200 225	295	volts
Driving Power, (approx.)	2.6 3.1	<del>4</del> .5	watts

<sup>\*</sup>The above figures show actual measured tube performance, and do not allow for variations in circuit losses.







# DRIVING POWER vs. POWER OUTPUT

The three charts on this page show the relationship of plate efficiency, power output and grid driving power at plate voltages of 1000, 1500 and 2000 volts. These charts show combined grid and bias losses only. The driving power and power output figures do not include circuit losses. The plate dissipation in watts is indicated by Pp.

Points A, B, and C are identical to the typical Class C operating conditions shown on the first page under 1000, 1500, and 2000 volts respectively.

